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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/553,171	10/17/2005	Munetsugu Ueyama	017700-0180 1079	
23392 FOLEY & LAR	7590 07/22/200 RDNER	EXAMINER		
2029 CENTUR	Y PARK EAST	PATEL, ISHWARBHAI B		
SUITE 3500 LOS ANGELE	S, CA 90067	ART UNIT	PAPER NUMBER	
			2841	
			MAIL DATE	DELIVERY MODE
			07/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application I	No.	Applicant(s)			
		10/553,171		UEYAMA ET AL.			
	Office Action Summary	Examiner		Art Unit			
		Ishwar (I. B.)	Patel	2841			
	The MAILING DATE of this communicati			orrespondence add	dress		
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
	Responsive to communication(s) filed or	n 05 May 2008					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
<u>ا</u> رت	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-14 is/are pending in the appli	cation.					
•	4a) Of the above claim(s) <u>9-14</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s)israre allowed. Claim(s) <u>1-8</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·							
	Claim(s) are subject to restriction	and/or election requ	irement.				
	· · ·						
	on Papers						
*	The specification is objected to by the Ex						
10)⊠ The drawing(s) filed on <u>17 October 2005</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) 🔲 Notic 3) 🔯 Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 10/17/5,12/7/7,2/26/8		Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa	te			

DETAILED ACTION

Election/Restrictions

1. Applicant's election of group I, specie I, claims 1-8 in the reply filed on May 5, 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). The certified copy has been received and placed of record in the file.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the structure of cladding must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure

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is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otto (US Patent No. 6,188,921) in view of Christopherson (US Patent No. 6,339,047).

Regarding claim 1, Otto discloses a superconducting wire, comprising an oxide superconductor and a cladding metal for cladding said oxide superconductor (oxide filament in metal sheath, column 5, line 1-10). Otto does not explicitly disclose a material of said cladding metal having a breaking strain of at least 30% in a stress-strain test. Otto discloses cladding metal to be silver or silver alloy (column 6, line 5-14). Otto

further recites that stress / strain arises in the system which may induce defects into the brittle superconducting phase (column 6, line 14-30). That means the cladding material should be selected such that it will be able to withstand the stress / strain without passing it to the superconducting phase.

Christopherson discloses that even high purity silver usually contain some impurity. Christopherson further recites alloying silver with suitable material.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to have the metal cladding with the desired amount of impurity along with alloying material to control stress / strain of the cladding to avoid damage to the superconducting material.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to provide the superconducting wire of Otto with said cladding metal having a breaking strain of at least 30% in a stress-strain test, as taught by Christopherson, in order to control stress / strain of the cladding to avoid damage to the superconducting material.

Further, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involve only routine skill in the art. *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Regarding claims 2-5 and 8, the desired value of breaking strain (claim 2-4), maximum stress (claim 5) and the impurity (claim 8), would have been obvious to a person of ordinary skill in the art at the time of applicant's invention, to adjust the

specific limitations recited in claims to control stress / strain of the cladding to avoid damage to the superconducting material, as applied to claim 1 above.

Regarding claim 6, Otto further discloses the material of said cladding metal contains silver and/or silver alloy (column 6, line 5-14).

Regarding claim 7, Otto further discloses a material of said oxide superconductor contains a bismuth-based oxide superconductor (column 6, line 31-45).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zhao (US Patent No. 6,819,948) in figure 1 discloses a superconducting wire containing Bismuth in a silver / silver alloy cladding (column 5, line 15-25).

Seuntjens (US Patent No. 6,294,738) discloses silver alloy tubes to be used with oxide superconductor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571) 272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272 1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ibp July 7, 2008 /Ishwar (I. B.) Patel/ Primary Examiner, Art Unit 2841